



Hurricane Harvey 2017
9/21/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- House of Representatives Speaker, Paul Ryan, is expected to visit the Houston Branch today, September 21, 2017. Dana Tulis, U.S. Coast Guard (USCG) Director of Incident Management and Preparedness Policy visited the Houston Branch yesterday.
- Today is the last day for response activities with no state cost-share. Cost-share increases to 10% at midnight tonight.
- EPA field activities will continue for the proper disposal of over 950 containers of miscellaneous materials, spill response, debris staging and landfill observation teams and community assistance program to share federal and state guidance to individuals that are dealing with potential hazards in damage or lost homes.
- State of Texas requested EPA oversight of asphalt emulsion spill from L.D. Construction Company in Jefferson County. The Responsible Party response to date is inadequate. Four homes have been impacted. EPA is also investigating a unknown sheen at the RV Trailer Resort in Pt. Arthur, Texas.
- Corpus Christi and Port Arthur/Beaumont Branches have transitioned all future assessment and recovery operations to the Texas Commission on Environmental Quality (TCEQ) Regional Offices and are sampling and dismantling the staging pads. EPA and the TCEQ are preparing transition memos for each Branch.
- The Houston Branch of Unified Command continues to stage, characterize, and consolidate orphan containers for proper disposal. The Port Arthur/Beaumont Branch has transferred all recovered containers and waste to the Houston Branch. The Houston Branch is projected to complete waste characterization by September 24, 2017, and all activities within 25 days.
- The TAGA teams completed monitoring near targeted facilities in all Branches yesterday. Both teams will demobilize today, September 21, 2017.
- EPA completed sampling of all 34 Texas Superfund sites potentially impacted by the storm plus 9 Louisiana Sites by September 15, 2017. EPA has released 35 of the 43 post-hurricane

Superfund site summaries based on preliminary data on the www.epa.gov/hurricane-harvey website.

- Community Liaison teams continue to provide information regarding returning to flooded areas and handling of house-hold waste in the counties of Dewitt, Gonzales, Goliad, Jefferson, Harris, Lee, Colorado, Fayette, Liberty, Galveston, Jasper, Newton, Calhoun, Victoria, Jackson, Lavaca, Polk, Hardin, Bastrop, Brazoria, and Karnes. The plan is for these teams to continue activities until October 23, 2017. The teams are listening to concerns from the community, associated with the recovery effort, and transferring this information back to County officials and the Joint Field Office (JFO), to the appropriate ESF contacts, where appropriate.
- The TCEQ has requested the Federal Emergency Management Agency (FEMA) to increase EPA's ESF-10 Mission Assignment an additional \$3.3 million. Once fully approved, this will bring the total funding for assessment and response to \$15.49 million.

DEBRIS RECOVERY

Joint EPA and TCEQ field observation teams continue to observe debris staging and landfill operations within the hurricane impacted counties in Texas to ensure best practices and program requirements are being met. EPA observers visited 29 sites, with TCEQ, on September 20, 2017. The plan is for debris observation teams to continue for another 30 days. FEMA reported that 154 debris sites have been approved. Currently, FEMA estimates debris to total 17.5 million cubic yards. A federal Debris Management Taskforce has been established at the JFO in Austin and EPA is a member of the Taskforce. All observers noted that TCEQ is following their debris/landfill observation process, and TCEQ is having the sites address any issues to their satisfaction.

AIR MONITORING

The TAGA teams completed monitoring ahead of schedule at the list of targeted facilities on September 20, 2017. The OSC, air technical support teams, and the two TAGAs will also demobilize today.

On September 20, 2017, TAGA Team 1 conducted air monitoring areas surrounding Valero Three Rivers Refinery in Three Rivers, Texas. No monitored readings exceeded the TCEQ Air Monitoring Comparison Values short-term screening levels.

Also yesterday, TAGA Team 2 conducted air monitoring in areas surrounding ExxonMobil Beaumont Colonial Storage, BASF Beaumont, Sunoco Hebert Terminal, Motiva Beaumont Terminal, Clark Port Arthur Pipeline Company, Beaumont Marine West Terminal, INVISTA Orange, Chevron Phillips Chemical - Polyethylene Plant, and Firestone Orange. No monitored readings exceeded the TCEQ Air Monitoring Comparison Values short-term screening levels.

On September 19, 2017, the TAGA Team 2 generator went down due to a broken fan belt. The mechanical issue did not affect the sensors or data. The crew repaired the generator. An initial calibration was done in the morning of September 19, 2017, but the end-of-day calibration used

for post processing could not be completed due to a lack of power. As a precaution, TAGA Team 2 re-monitored areas surrounding ExxonMobil Beaumont Refinery, ExxonMobil Beaumont Chemical Plant, Neches Terminal and Neches Terminal/Neches West, and ExxonMobil Beaumont Polyethylene on September 20, 2017. No monitored readings exceeded the TCEQ Air Monitoring Comparison Values short-term screening levels.

FIELD RESPONSE ACTIVITIES

All targets have been assessed and recovered or closed. A total of 648 targets have been evaluated since the beginning of the response. The Hazard Evaluation/Recovery table will be discontinued in subsequent updates.

Field Teams on 9/20/2017				
Teams	Alpha	Bravo	Charlie	Total
Hazard Evaluation	0	1	2	3
Hazard Evaluation Debris	2	8	0	10
Oil Discharge Assessment	0	2	0	2
ER/Orphan Container Recovery	0	6	1	7
Oil/Vessel Discharge Recovery	6	0	0	6
Staging Areas	0	1	1	2
Air Operations	0	1	0	1
Air Monitoring	1	0	0	1
Vessel Removal	0	0	1	1
Totals	9	19	5	33

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/20/2017	Number of Targets Remaining Open	9/20/2017	Cumulative
Corpus Christi Branch	0	0	5	106
Houston Branch	0	0	3	402
Port Arthur/Beaumont Branch	0	0	0	135
NRC Reports	0	0	0	5
TOTALS	0	0	8	648
Note: All Open Targets have been evaluated and recovered or closed. This table will be discontinued in future updates. Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.				

Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)				
Status	Opened		Closed	
	9/20/17	Number of Facilities/Spills Remaining Open	9/20/17	Cumulative
Corpus Christi Branch	0	0	0	33
Houston Branch	0	0	0	77
Port Arthur/Beaumont Branch	0	3	0	23
NRC Reports	0	8	3	121
TOTALS	0	11	3	254
Note: Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by a Responsible Party or not found upon return to location.				

Waste Received at All Staging Pads to Date					
	CONTAINERS			Cylinders	TOTAL
	Drums [55 gals]	Small Containers [<55 gals]	Large Containers [>55 gals]		
9/20/2017	4	0	6	0	10
TOTAL TO DATE	427	397	43	120	987

Items/Materials Processed for Disposal						
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]	Cylinders	Solid Waste/Roll Off Box	Total Scrap Metal Recycled (lbs)
Total received at all Staging Pads as of 9/20/17	427	397	43	120	3	2,453
Processed for Disposal						
Total processed for disposal as of 9/20/17	173	241	19	52	1	
Remaining to be Processed for Disposal	254	156	24	68	2	
Percent Remaining	59%	39%	56%	57%	67%	

CORPUS CHRISTI BRANCH:

Oil/Vessel Discharge Recovery Teams closed four targets and opened one in Rockport and Key Allegro.

HOUSTON BRANCH:

The Water Task Force recovered four totes within the vicinity of the San Jacinto Reserve and Houston Ship Channel. The Hazard Evaluation Group assessed a target in Huffman but could not locate the container.

All containers from the Port Arthur/Beaumont staging area have been received. Approximately 30 containers were sampled and approximately 20 containers were field screened for hazardous categories. Operations ceased for the day at 16:50 hours due to severe weather.

PORT ARTHUR/BEAUMONT BRANCH:

All targets at Charlie Branch have been cleared. However, the following oil spill responses were conducted at the request of TCEQ:

- LD Construction Spill, Lumberton, Texas: TCEQ requested EPA assistance with oversight of a Responsible Party (RP) led cleanup of an oil spill that resulted from flooding caused by Hurricane Harvey. On September 20, 2017, TCEQ requested assistance because the RP has not yet responded adequately. The amount of thick oil used for asphalt application that was spilled is unknown. The TCEQ has visited the site three times since being notified on September 6, 2017. EPA contacted the facility manager to verbally issue a Notice of Federal Interest and will issue a hardcopy today, September 21, 2017. EPA will further evaluate the RP response to determine what further actions are necessary.
- Port Arthur Pipeline Spill, Port Arthur, Texas: On September 19, 2017, TCEQ received a report of a waterline break with an apparent oil sheen at the Port Arthur RV Resort. The report alleged that the break occurred on August 31, 2017. On September 20, 2017, TCEQ drinking water responders arrived on the scene and determined the release was not from the city water supply. TCEQ requested assistance and the Texas Railroad Commission (RRC) responded to the scene with EPA. EPA and RRC discovered the material flowing into a retention pond and possibly Taylor Bayou. RRC identified two pipelines that run under the property but no responsible party has been identified. Representatives from Motiva Refinery responded to conduct air monitoring and assessment; they determined it was not one of their pipelines. USCG contractors responded to place boom and sorbent pads until further assessment and appropriate response can be conducted today, September 21, 2017.

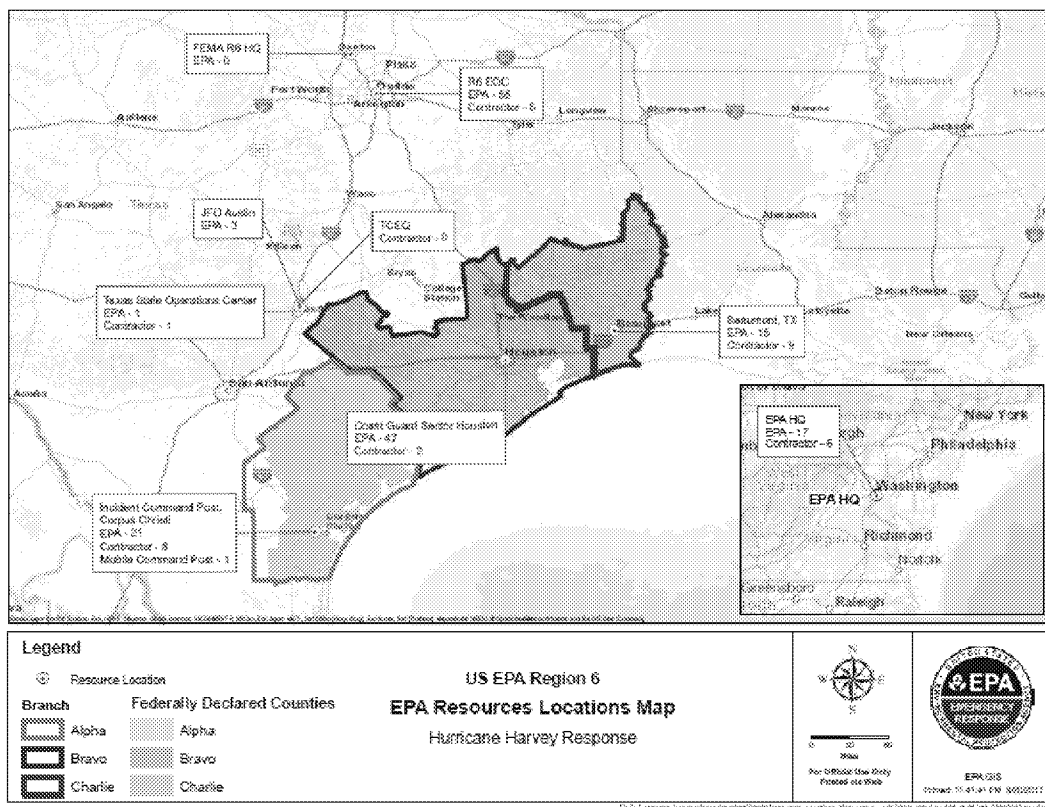
FUNDING

September 20, 2017, UPDATED 1300 hours

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Obligated to Date	Estimated Spent to Date	Unobligated Dollars Remaining	Estimated Unspent Dollars Remaining	Daily Burn Rate	Days Remaining
Non Mission Assignment	N/A			\$64,200.00	\$0.00	\$0.00		
MA 4332DR-TX-EPA-01	\$275,000.00	\$242,741.00	\$62,592.00	\$62,592.00	\$180,149.00	\$180,149.00	\$4,064.00	44.33
MA 4332DR-TX-EPA-03	\$12,192,000.00	\$10,761,763.00	\$8,453,740.41	\$6,123,346.16	\$2,467,640.59	\$4,924,656.34	\$257,120.26	see below
Totals:	\$12,467,000.00	\$11,004,504.00	\$8,516,332.41	\$6,250,138.16	\$2,647,789.59	\$5,040,605.34		
Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED								19.15
Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS								10.3
NOTE: This report includes estimated cumulative costs of the HQ EOC charging under MA#03 (09/16/17)								

EPA RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	Texas JFO Austin, TX	Texas SOC Austin, TX	TCEQ Austin, TX	Houston, TX	Corpus Christi, TX	Beaumont, TX	HQ EOC, Wash, DC	TOTAL
EPA	55	0	3	1	0	47	22	15	17	160
START	6			1	0	2	8	9		26
ERRS						20	2	15		37
Other Contractors									6	6
TOTAL	61	0	3	2	0	69	32	39	23	229



FEDERAL SUPERFUND NPL SITES - (These activities are being done concurrently but outside of the current Mission Assignment)

- EPA either directed potentially responsible parties (PRPs), or independently, began collecting samples at 34 Texas Superfund Sites and 9 Louisiana Sites to confirm no releases due to storm impacts. Six EPA field teams, along with PRPs, have completed sampling at all 43 sites. The sampling is part of a longer term assessment that will be used to transition sites back to normal cleanup operations.
- Review of preliminary data packages continues and will be reported as they are completed. Final data packages are expected within two weeks.
- All 43 Federal Superfund NPL Sites in the hurricane affected area have been assessed. Of these, 42 sites have been cleared. The San Jacinto Waste Pits requires additional follow up.
- San Jacinto Waste Pits Update: The Responsible Party submitted, and EPA approved the cap repair work plan on September 15, 2017. The RP began maintenance work on September 16, 2017.

Photo Log



**Houston Branch
Orphan Container Sampling**